

Minerals ▪ *Guided Reading and Study*

How Minerals Form

This section describes how minerals form and where minerals are found.

Use Target Reading Skills

As you preview the headings in this section, complete the graphic organizer with questions in the left column. As you read, fill in the answers in the second column.

Formation of Minerals

Question	Answer
How do minerals form from magma?	

Introduction

1. The process by which atoms are arranged to form a material with a crystal structure is referred to as _____.
2. In what two ways do minerals form?

Minerals From Magma and Lava

3. What affects the size of crystals formed from magma? _____

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4. Why does magma that cools deep below the surface have large crystals?

5. Is the following sentence true or false? Lava cools quickly and forms minerals with small crystals. _____

Minerals From Solutions

6. A mixture in which one substance dissolves in another is called a(n)

_____.

7. Is the following sentence true or false? Minerals can form when solutions evaporate. _____

8. Circle the letter of each sentence that is true about halite deposits in the United States.

- a. Deposits are found in the Midwest and Southwest.
- b. Deposits are found along the Gulf Coast.
- c. Deposits formed over the past thousand years.
- d. Deposits formed when ancient seas evaporated.

9. How do minerals form from a hot water solution? _____

10. A narrow channel or slab of a mineral that is much different from the surrounding rock is called a(n) _____.

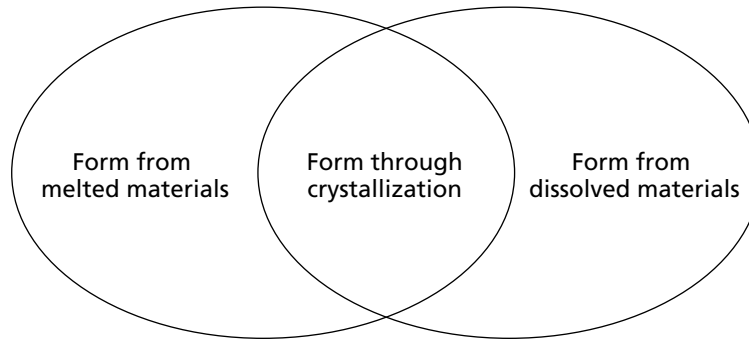
11. How do veins form? _____

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How Minerals Form *(continued)*

12. Complete the Venn diagram by labeling the circles with the type of minerals they represent.

a. _____ b. _____



- c. Use the Venn diagram to explain how the two main ways in which minerals can form are alike and how they are different. _____
